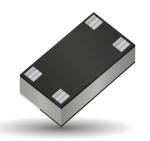
High Directivity Directional Coupler

CP2816 Series





ITF TECHNOLOGY

The ITF LGA Coupler is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic assembly. The ITF Coupler is offered in a variety frequency bands compatible with various types of high frequency wireless systems.

APPLICATIONS

- · Defense Applications
- UHF/VHF Radios
- · Handheld Systems
- Radar
- · Commercial Aerospace
- · Base Station

FEATURES

- · Small size: 2816
- · Band: (see Part Numbers)
- Characteristic impedance: 50Ω
- Operating / Storage temp: -40°C +105°C
- · Low profile
- · Rugged construction
- · RoHS compliant

HOW TO ORDER













Lead Free

QUALITY INSPECTION

Finished parts are 100% tested for electrical parameters and visual characteristics. Each production lot is evaluated on a sample basis for:

- · Static Humidity: 85°C, 85% RH, 160 hours
- Endurance: 125°C, I_R, 4 hours

POWER HANDLING

20W (Continuous)

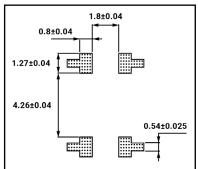
TERMINATION

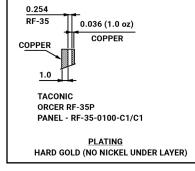
Nickel/Lead Free solder coating compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

ELECTRICAL CHARACTERISTICS

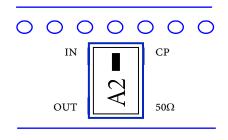
Part Number	Frequency (MHz)	Coupling (dB)	Insertion Loss (dB)	V.S.W.R	Directivity (dB)
CP2816A0281ANTR	225 - 337	-10 ± 2	-0.9	1.3	-14
CP2816A0368ANTR	225 - 512	-15 ± 4	-0.85	1.3	-14
CP2816A0424ANTR	337 - 512	-10 ± 2	-0.9	1.3	-14
CP2816A0540ANTR	480 - 600	-10 ± 1.2	-0.9	1.3	-14
CP2816A0615ANTR	480 - 750	-15 ± 2	-0.8	1.3	-14
CP2816A0675ANTR	600 - 750	-10 ± 1.2	-0.8	1.3	-14

PAD AND PCB RECOMMENDATION (TOP VIEW)





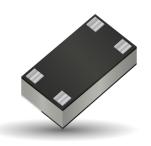
ORIENTATION IN TAPE (TOP VIEW)



High Directivity Directional Coupler

CP2816A0281ANTR





ITF TECHNOLOGY

The ITF LGA Coupler is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic assembly. The ITF Coupler is offered in a variety frequency bands compatible with various types of high frequency wireless systems.

APPLICATIONS

- · Defense Applications
- UHF/VHF Radios
- · Handheld Systems
- Radar
- · Commercial Aerospace
- · Base Station

FEATURES

- · Small size: 2816
- Band: 225 337 MHz
- Characteristic impedance: 50Ω
- Operating / Storage temp: -40°C +105°C
- · Low profile
- · Rugged construction
- · RoHS compliant

HOW TO ORDER









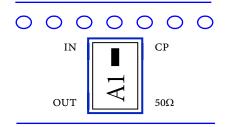


QUALITY INSPECTION

Finished parts are 100% tested for electrical parameters and visual characteristics. Each production lot is evaluated on a sample basis for:

- Static Humidity: 85°C, 85% RH, 160 hours
- Endurance: 125°C, I_R, 4 hours

ORIENTATION IN TAPE (TOP VIEW)



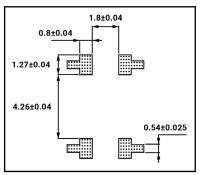
TERMINATION

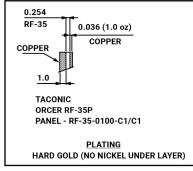
Nickel/Lead Free solder coating compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

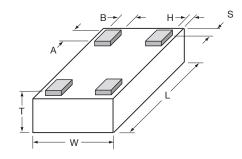
POWER HANDLING

20W (Continuous)

PAD AND PCB RECOMMENDATION (TOP VIEW)







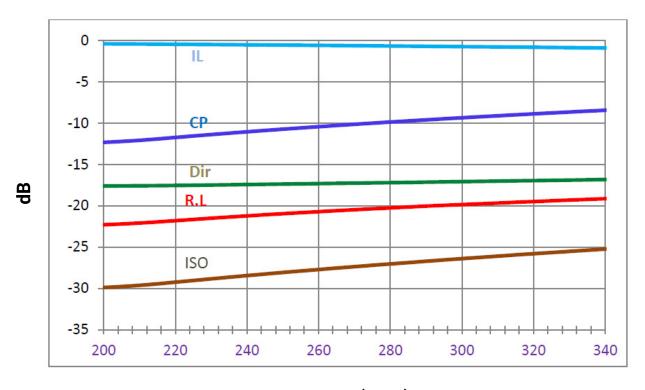
mm (inches)				
L	7.0±0.3			
W	4.0±0.2			
Т	1.2 max			
Α	1.1±0.1			
В	0.6±0.1			
D	3.2±0.1			
E	2.0±0.1			
F	4.5±0.1			

Thin-Film RF/Microwave Directional Couplers High Directivity Directional Coupler CP2816A0281ANTR



ELECTRICAL CHARACTERISTICS

Part Number	Frequency (MHz)	Coupling (dB)	Insertion Loss (dB)	V.S.W.R	Directivity (dB)
CP2816A0281ANTR	225 - 337	-10 ± 2	-0.9	1.3	-14

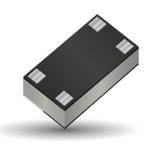


Frequency (MHz)

High Directivity Directional Coupler

CP2816A0368ANTR





ITF TECHNOLOGY

The ITF LGA Coupler is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic assembly. The ITF Coupler is offered in a variety frequency bands compatible with various types of high frequency wireless systems.

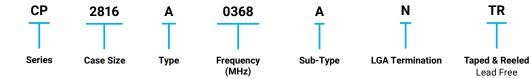
APPLICATIONS

- · Defense Applications
- UHF/VHF Radios
- · Handheld Systems
- Radar
- · Commercial Aerospace
- · Base Station

FEATURES

- · Small size: 2816
- Band: 225 512 MHz
- Characteristic impedance: 50Ω
- Operating / Storage temp: -40°C +105°C
- · Low profile
- · Rugged construction
- · RoHS compliant

HOW TO ORDER



QUALITY INSPECTION

Finished parts are 100% tested for electrical parameters and visual characteristics. Each production lot is evaluated on a sample basis for:

- Static Humidity: 85°C, 85% RH, 160 hours
- Endurance: 125°C, I_R, 4 hours

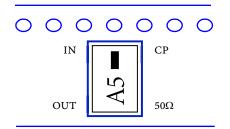
TERMINATION

Nickel/Lead Free solder coating compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

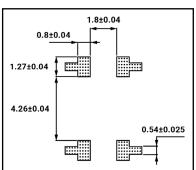
POWER HANDLING

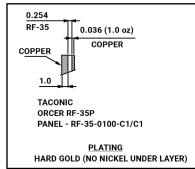
20W (Continuous)

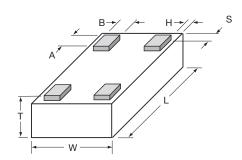
ORIENTATION IN TAPE (TOP VIEW)



PAD AND PCB RECOMMENDATION (TOP VIEW)







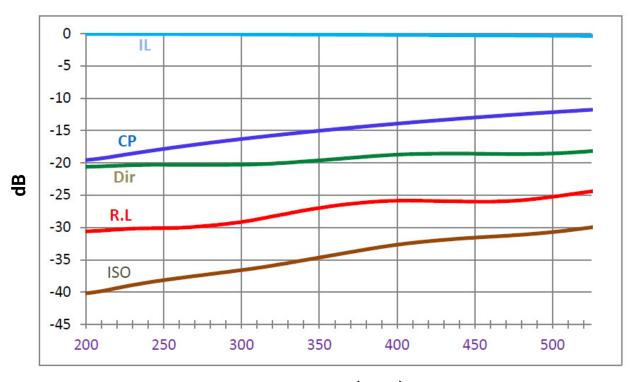
mm (inches) 7.0±0.3 W 4 0+0 2 1.2 max 1.1±0.1 В 0.6 ± 0.1 D 3.2±0.1 Ε 2.0±0.1 4.5±0.1

Thin-Film RF/Microwave Directional Couplers High Directivity Directional Coupler CP2816A0368ANTR



ELECTRICAL CHARACTERISTICS

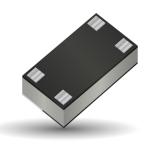
Part Number	Frequency (MHz)	Coupling (dB)	Insertion Loss (dB)	V.S.W.R	Directivity (dB)
CP2816A0368ANTR	225 - 512	-15 ± 4	-0.85	1.3	-14



Frequency (MHz)

High Directivity Directional Coupler CP2816A0424ANTR

KYOCERa



ITF TECHNOLOGY

The ITF LGA Coupler is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic assembly. The ITF Coupler is offered in a variety frequency bands compatible with various types of high frequency wireless systems.

APPLICATIONS

- · Defense Applications
- UHF/VHF Radios
- · Handheld Systems
- Radar
- · Commercial Aerospace
- · Base Station

FEATURES

- · Small size: 2816
- Band: 337 512 MHz
- Characteristic impedance: 50Ω
- Operating / Storage temp: -40°C +105°C
- · Low profile
- · Rugged construction
- · RoHS compliant

HOW TO ORDER



QUALITY INSPECTION

Finished parts are 100% tested for electrical parameters and visual characteristics. Each production lot is evaluated on a sample basis for:

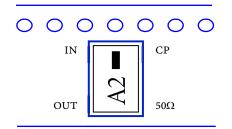
- Static Humidity: 85°C, 85% RH, 160 hours
- Endurance: 125°C, I_R, 4 hours

TERMINATION

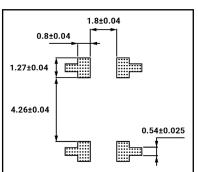
Nickel/Lead Free solder coating compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

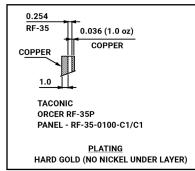
POWER HANDLING 20W (Continuous)

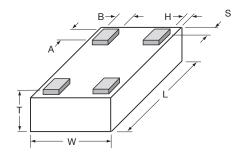
ORIENTATION IN TAPE (TOP VIEW)



PAD AND PCB RECOMMENDATION (TOP VIEW)







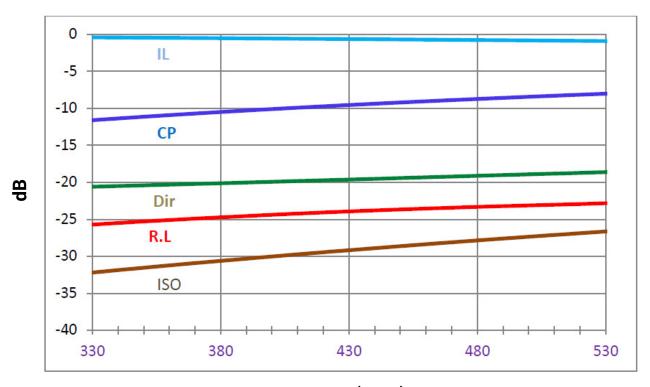
mm (inches) 7.0±0.3 W 4 0+0 2 1.2 max 1.1±0.1 В 0.6 ± 0.1 D 3.2±0.1 Ε 2.0±0.1 4.5±0.1

Thin-Film RF/Microwave Directional Couplers High Directivity Directional Coupler CP2816A0424ANTR



ELECTRICAL CHARACTERISTICS

Part Number	Frequency (MHz)	Coupling (dB)	Insertion Loss (dB)	V.S.W.R	Directivity (dB)
CP2816A0424ANTR	337 - 512	-10 ± 2	-0.9	1.3	-14

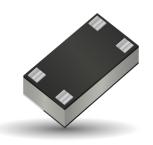


Frequency (MHz)

High Directivity Directional Coupler

CP2816A0540ANTR





ITF TECHNOLOGY

The ITF LGA Coupler is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic assembly. The ITF Coupler is offered in a variety frequency bands compatible with various types of high frequency wireless systems.

APPLICATIONS

- · Defense Applications
- UHF/VHF Radios
- · Handheld Systems
- Radar
- · Commercial Aerospace
- · Base Station

FEATURES

- · Small size: 2816
- · Band: 480 600 MHz
- Characteristic impedance: 50Ω
- Operating / Storage temp: -40°C +105°C
- · Low profile
- · Rugged construction
- · RoHS compliant

HOW TO ORDER









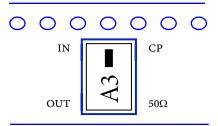


QUALITY INSPECTION

Finished parts are 100% tested for electrical parameters and visual characteristics. Each production lot is evaluated on a sample basis for:

- Static Humidity: 85°C, 85% RH, 160 hours
- Endurance: 125°C, I_R, 4 hours

ORIENTATION IN TAPE (TOP VIEW)



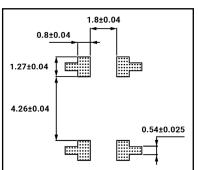
TERMINATION

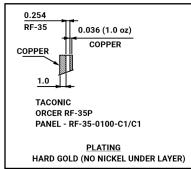
Nickel/Lead Free solder coating compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

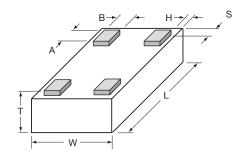
POWER HANDLING

20W (Continuous)

PAD AND PCB RECOMMENDATION (TOP VIEW)







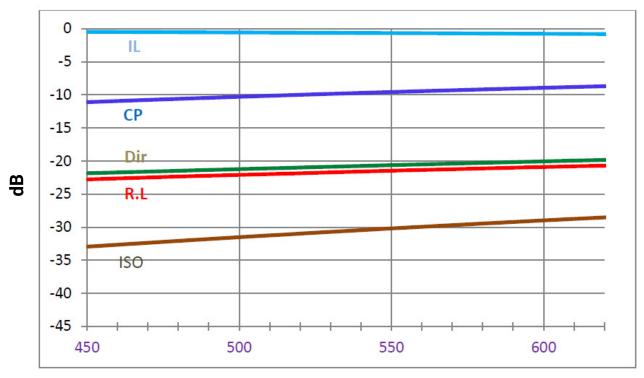
mm (inches) 7.0±0.3 W 4 0+0 2 1.2 max 1.1±0.1 В 0.6 ± 0.1 D 3.2±0.1 Ε 2.0±0.1 4.5±0.1

Thin-Film RF/Microwave Directional Couplers High Directivity Directional Coupler CP2816A0540ANTR



ELECTRICAL CHARACTERISTICS

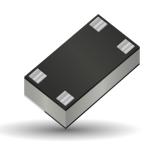
Part Number	Frequency (MHz)	Coupling (dB)	Insertion Loss (dB)	V.S.W.R	Directivity (dB)
CP2816A0540ANTR	480 - 600	-10 ± 1.2	-0.9	1.3	-14



Frequency (MHz)

High Directivity Directional Coupler CP2816A0615ANTR





ITF TECHNOLOGY

The ITF LGA Coupler is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic assembly. The ITF Coupler is offered in a variety frequency bands compatible with various types of high frequency wireless systems.

APPLICATIONS

- · Defense Applications
- UHF/VHF Radios
- · Handheld Systems
- Radar
- · Commercial Aerospace
- · Base Station

FEATURES

- · Small size: 2816
- Band: 480 750 MHz
- Characteristic impedance: 50Ω
- Operating / Storage temp: -40°C +105°C
- · Low profile
- · Rugged construction
- · RoHS compliant

HOW TO ORDER



QUALITY INSPECTION

Finished parts are 100% tested for electrical parameters and visual characteristics. Each production lot is evaluated on a sample basis for:

- Static Humidity: 85°C, 85% RH, 160 hours
- Endurance: 125°C, I_R, 4 hours

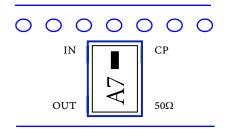
TERMINATION

Nickel/Lead Free solder coating compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

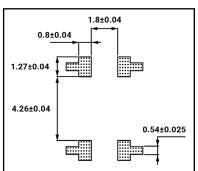
POWER HANDLING

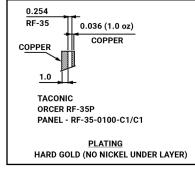
20W (Continuous)

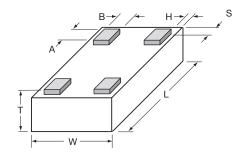
ORIENTATION IN TAPE (TOP VIEW)



PAD AND PCB RECOMMENDATION (TOP VIEW)







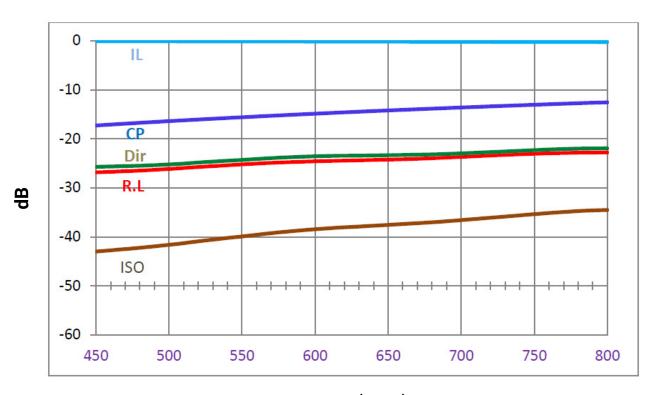
mm (inches) 7.0±0.3 W 4 0+0 2 1.2 max 1.1±0.1 В 0.6 ± 0.1 D 3.2±0.1 Ε 2.0±0.1 4.5±0.1

Thin-Film RF/Microwave Directional Couplers High Directivity Directional Coupler CP2816A0615ANTR



ELECTRICAL CHARACTERISTICS

Part Number	Frequency (MHz)	Coupling (dB)	Insertion Loss (dB)	V.S.W.R	Directivity (dB)
CP2816A0615ANTR	480 - 750	-15 ± 2	-0.8	1.3	-14

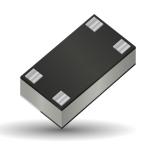


Frequency (MHz)

High Directivity Directional Coupler

CP2816A0675ANTR





ITF TECHNOLOGY

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APPLICATIONS

- · Defense Applications
- UHF/VHF Radios
- · Handheld Systems
- Radar
- · Commercial Aerospace
- · Base Station

FEATURES

- · Small size: 2816
- Band: 600 750 MHz
- Characteristic impedance: 50Ω
- Operating / Storage temp: -40°C +105°C
- · Low profile
- · Rugged construction
- · RoHS compliant

HOW TO ORDER



QUALITY INSPECTION

Finished parts are 100% tested for electrical parameters and visual characteristics. Each production lot is evaluated on a sample basis for:

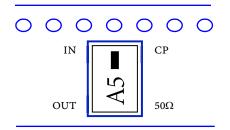
- Static Humidity: 85°C, 85% RH, 160 hours
- Endurance: 125°C, I_R, 4 hours

TERMINATION

Nickel/Lead Free solder coating compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

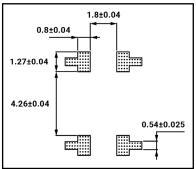
20W (Continuous)

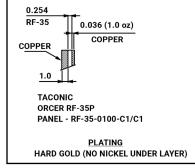
ORIENTATION IN TAPE (TOP VIEW)

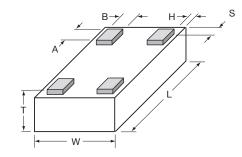


POWER HANDLING

PAD AND PCB RECOMMENDATION (TOP VIEW)







mm (inches) 7.0±0.3 W 4 0+0 2 1.2 max 1.1±0.1 В 0.6 ± 0.1 D 3.2±0.1 Ε 2.0±0.1 4.5±0.1